BAYKOV, S.P., kand. tekhn. nauk; EELENKO, I.S., kand. tekhn. nauk; HELKOV, S.F., inzh.; BÉLYANCHIKÓV, M.P., inzh.; BERNSHTEÝN, I.L., inzh.; BOGORODITSKIY, D.D., inzh.; BOLONOVA, Ye.V., kand. tekhn. nauk; EROZGOLi, I.M., kand. tekhn.nauk; VIADIMIROV, V.B., inzh.; VOLKOV, P.D., kand. tekhn. nauk; GERASIMOVA, N.N., inzh.; ZHUKHOVITSKIY, A.F., inzh.; KABANOV, M.F., inzh.; KAKEVTSOV, V.M., kand. tekhn. nauk; KOLOTERKOV, I.V., inzh.; KONDRAT'YEV, I.M., inzh.; KUZNETSOV, I.P., kand. tekhn. nauk; L'VOV, D.S., kand. tekhm. nauk; LYSENKO, I.Ya., kand. tekhm. nauk; MAKAROV, L.M., inzh.; CLEYNIK, N.D., inzh.; RABINER, Ye.G., inzh.; ROZHDESTVENSKIY, Yu.L., kand. tekhn. nauk; SAKHON'KO, I.M., kand. tekhn. nauk; SIDOROV, P.N., inzh.; SPITSYN, N.A., prof., doktor tekhn. nauk; SPRISHEVSKIY, A.I., kand. tekhn. nauk; CHIRIKOV, V.T., kand. tekhn nauk; SHEYN, A.S., kand. tekhn. nauk; NIBERG, N.Ya., nauchnyy red.; BLAGOSKLONOVA, N.Yu., inzh., red. izd-va; SOKOLOVA, T.F., tekhn. red.

[Antifriction bearings; manual] Podshipniki kacheniia; spravochnoe posobie. Moskva, Gos. nauchno-tekhn. izd-vo mashino-stroit. lit-ry, 1961. 828 p. (MIRA 15:2) (Bearings (Machinery))

L 22151-65 EPF(c)/EPR/EWT(d)/EWT(m)/T/EWA(d)/EWP(w) Pr-4/Ps-4 AEDC(a)/ASDF-3 EM; DJ

ACCESSION NR: AR4045074

s/0277/64/000/005/0036/0036

SOURCE: Ref. zh. Mashinostr. mat., konstr. i raschet detal. mash. Otd. vy\*p., Abs. 5.48.257

AUTHOR: Spitsy\*n, N. A.; Narodetskiy, M. Z.; Ly\*senko, I. Ya.

TITLE: New developments in the theory of calculating roller-contact bearings

CITED SOURCE: Tr. Vses. n.-i. konstrukt.-tekhnol. in-ta podshipnik. prom-sti, no. 3(35), 1963, 11-30

TOPIC TAGS: roller contact bearing, antifriction bearing, bearing theory, elasticity theory, radial ball thrust bearing, bearing load capacity, radial gap

TRANSLATION: The article presents a survey of studies, mainly by Soviet authors, on the theory of calculation of roller contact bearings, which include the formulation of contact problems in the theory of elasticity. Subjects discussed include methods for solving problems in the theory of elasticity relating to Cord 1/2

L 22151-65

ACCESSION NR: AR4045074

bearing design, analysis of effects of radial gaps on load capacity and life of roller contact bearings, analysis of dynamic and kinematic characteristics of various types of antifriction bearings, design principles for high speed bearings, theoretical principles of calculating preset roll gap and regulating the end play of radial ball thrust bearings, as well as an evaluation of the comparative load capacity of various types of bearings.

SUB CODE: IE

ENCL: 00

Card 2/2

Nonskidding belt drive. Vest.mashinostr. 43 no.2:40-42
F 163. (Belts and belting)

(MIRA 16:3)

EWT(m)/EPF(c)/EPR/T Pr-4/Ps-4 DJ 5/0122/64/000/009/0030/0035 ACCESSION NR: AP5002055 Spitsyn, N. A. (Doctor of technical sciences, Professor)  $\mathcal{B}$ TITLE: High speed bearings SOURCE: Vestnik mashinostroyeniya, no. 9, 1964, 30-35 TOPIC TAGS: lubrication, antifriction bearing Abstract: High speed bearings are defined as those which operate at a number of revolutions n exceeding values given by the parameter dn = 300,000 mm -rev/min, where d is the diameter of the opening of the bearing in mm. The design of a large variety of high speed bearings is presented. A list of six critical factors in the design of high speed bearings is given as well as criteria for determining the limiting speed of the bearings. A table is given showing the various methods of lubricating bearings of different sizes and speeds. The results of tests run on five different bearings are discussed. Orig. art. has 4 figures and 4 tables. ASSOCIATION: none SUB CODE: ENCL: 00 SUBMITTED: 00 **JPRS** OTHER: 000 NO REF SOV: 000 Card 1/1

EWT(d)/EWT(m)/EPF(c)/EWP(c)/EWP(v)/EPR/T/EWP(k)/EWP(1) 136225-65 DĴ UR/0286/64/000/014/0064/0064 ACCESSION NR: AP5010287 AUTHOR: Spitsyn, N. A.; Tsyplyanova, N. S.; Gorshenev, M. A.; Liberman, B. Ya.; Rysovets, G. G. TITLE: Hethod for checking antifriction bearings on a stand for limiting speed. Class 42, No. 164155 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1964, 64 TOPIC TAGS: antifriction bearing, test chamber
Translation: A method for checking antifriction bearings on a stand for limiting speed in a testing machine with mechanical or hydraulic loading and temporally stable lubricating conditions. In order to cut down on the length of time and the labor spent in testing, the test is carried out on one and the same small lot of bearings, for example ten units, which operate at speeds which are increased by steps. They are tested for no less than twenty-four hours each until there is an average rise in temperature of 40-500 above the ambient temperature. ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy konstruktorsko-tekhnologicheskiy institut podshipnikovoy promyshlennosti (All-Union Scientific Research Design and Technological Institute of the Bearing Industry) SUBMITTED: 290ct62 ENCL: OO SUB CODE: IE Card 1/1 NO REF SOV: 000 OTHER: 000

L 06321-67 EWP(j)/EWT(m) IJP(c) RM/DJ

ACC NR: AR6004034 SOURCE CODE: UR/0277/65/000 009/0042/0043

AUTHORS: Spitsyn, N. A.; Atras, S. G.; Tazhibayev, S. D.

TITLE: Ball bearings which work without lubrication at higher speeds

SOURCE: Ref. zh. Mashinostroitel'nyye materialy, konstruktsii i raschet detaley mashin. Gidroprivod, Abs. 9.48.357

REF SOURCE: Tr. Vses. n.-i. konstrukt.-tekhnol. in-ta podshipnik, prom-sti, v. 3(39), 1964, 66-74

TOPIC TAGS: self lubricating bearing, ball bearing, solid lubricant, teflon

ABSTRACT: Based on the work of Soviet and foreign authors developing self-lubricating

ABSTRACT: Based on the work of Soviet and foreign authors developing self-lubricating ball bearings and on the experimental work performed at MIEM, the following conclusions are reached. Ball bearings with massive separators made of teflon and a special lubricant are acceptable for unlubricated operation under atmospheric conditions at normal temperatures. They provide a useful life of 100 and more hours at a speed parameter of  $\frac{d+D}{2}$  n  $\leq 40~000$  mm/rev/min. Lubrication is provided by gradual wearing of the separator. Characteristics of a failing unlubricated bearing are increased noise during operation and a rapid rise in operating temperature, measured on the outer rings (by 10-150 or more), which is due to destruction of the

Card 1/2

UDC: 621.822.7.001.5

LIBERMAN, B.Ya.; SFITSYN, N.A., doktor tekhn. nauk, prof., retsenzent

[Machines for testing antifriction bearings] Mashiny dlia ispytanii podshipnikov kacheniia. Moskva, Mashinostroenie, 1965. 151 p. (MIRA 18:3)

SHCHEROTYYEV, N.V.; SPITSYN, N.A.

Magging the distribution and abundance of a species at the border of its range [the red-backed bank vole (Clethrionomys glareclus) in the lower Volga Valley]. Zool. zhur. 44 no.18143-145 (MIRA 18:4)

1. Derozhnaya protivochumnaya laboratoriya Privolzhskey zhelezney derogi, Saratov i Volgogradskaya oblastnaya manitarno-epidemiologicheskaya stantsiya.

L 3565-66 EWT(m)/EWP(w)/EPF(c)/EWA(d)/EWP(j)/T/EWP(t)/EWP(z)/EWP(b)/ETC(m)-ACCESSION NR: AT5022677 MJW/JD/WW/DJ/CS/RM UR/0000/65/000/000/0240/ UR/0000/65/000/000/0240/0243 AUTHOR: Spitsyn, N. A. TITLE: Friction and wear in high speed ball bearing SOURCE: AN SSSR. Nauchnyy sovet po treniyu i smazkam. Teoriya treniya i iznosa (Theory of friction and wear). Moscow, Izd-vo Nauka, 1965, 240-243 TOPIC TAGS: ball bearing friction, ball bearing wear, bearing separator/ BrAZhMts 10 3 1.5 bronze/alloy, BrAZhN 10 4 4 bronze alloy, No. 36205 ball bearing ABSTRACT: The friction and wear of high speed (d<sub>cp</sub>n > 1 600 000 mm rev/min) ball bearing separators are discussed. The gyroscopic torque of the ball is given as  $M_{\bullet} = 1,15 \cdot 10^{-10} d_{ep} n^2 d_{h}^4 \sin \beta$ which requires an axial-load of  $A/d_b \geqslant 1.15 \cdot 10^{-10} d_{ep} n^2 d_b \sin^2 \beta$ to damp out the gyroscopic rotation of the ball (where  $d_b$  = ball diameter). It was found that the maximum force on the separator does not exceed  $P_{\rm max} \approx 2Q_{\rm o} f$ Card 1/4

L 3565-66

ACCESSION NR: AT5022677

(see Fig. 1 on the Enclosure) and that the wear pattern on the separator can be decreased by more accurate sizing of balls and slight length increase of the ball nest. In thrust and radial-thrust bearings at high speeds the centrifugal force

 $F = 2.28 \cdot 10^{-19} \left( \frac{d_{ep} - d_{b} \cos \beta}{2d_{ep}} \right)^{2} d_{ep} n^{2} d_{b}^{3},$ 

on the separator cross-connectors can be substantial, particularly if the ball nests are of insufficient size. In unlubricated ball bearings teflon and selflubricating material ||separators have been found effective (for example, ball bearings No. 36205 at a load of 8-10 kg and 8500 rpm were found to have a life of 300 hours, using teflon separators). Tests performed at VNIIP with a variety of materials at speeds of  $d_{cp}b = 1$  425 000 - 1 814 000 mm rev/min have shown that

BrAZhMts 10-3-1.5 separators with steel connectors are best for single-row radial ball bearings, while BrAZhN 10-4-4 separators are best for three-point radial-thrust bearings (see Fig. 2 a and b respectively on the Enclosure). Orig. art. has: 2 figures and 1 table.

ASSOCIATION: Nauchnyy sovet po treniyu i smazkam, AN SSSR (Scientific Committee on Friction and Lubrication, AN SSSR) 44,65 SUBMITTED: 18May65 ENCL: 02

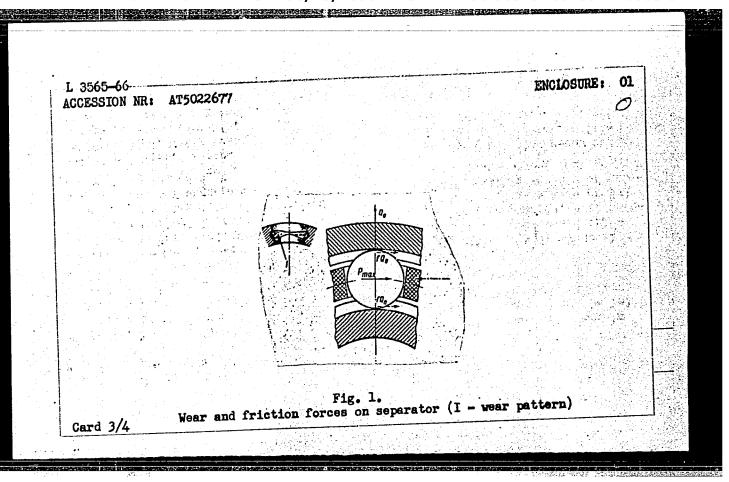
SUBMITTED: 18May65

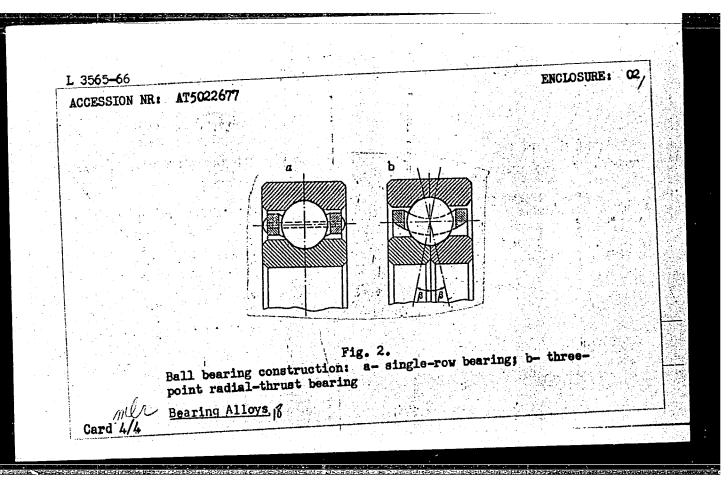
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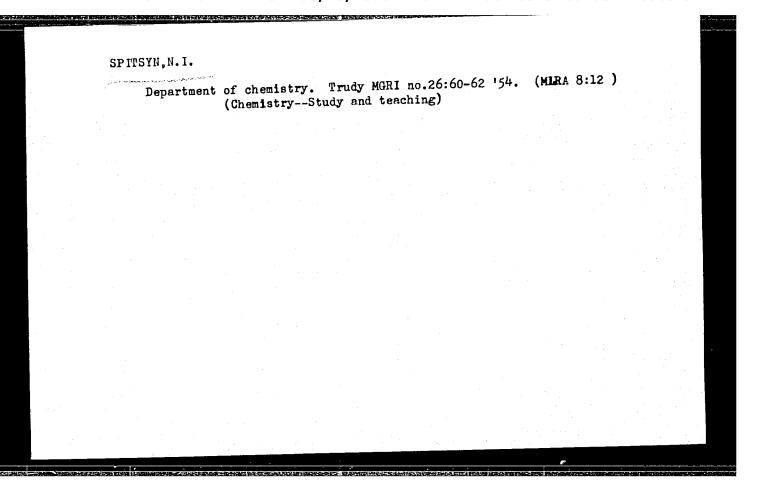
NO REF SOV: 000

OTHER: 000

Card 2/4







LAPTEV, Fedor Fedorovich; SPITSYN, N.I., redaktor; SERGEYEVA, N.A. redaktor; POPOV, N.D., tekhnicheskiy redaktor

[Water analysis] Analiz vody. Pod red. N.I. Spitsyna. Moskva
Gos.nauchno-tekhn.izd-vo lit-ry po geologii i okhrane nedr.

[MLRA 8:10)

(Water--Analysis)

(MIRA 15:7)

AL'TOVSKIY, M.Ye.; CHAPOVSKIY, Ye.G.; BABUSHKIN, V.D.; BINDEMAN, N.N.; LAPTEV, F.F. [deceased]; SOKOLOV, I.Yu.; CHALISHCHEV,
A.M. [deceased]; PROKHOROV, S.P.; TOKAREV, A.M.; KOROTEYEV,
A.P.; AERAMOV, S.K.; KONOPLYANTSEV, A.A., red.; PRIKLONSKIY, V.A.,
red. deceased]; SPITSYN, N.I., red.; MARINOV, N.A., red.;
KULICHIKHIN, N.I., red.; GARMONOV, I.V., red.; LYUBCHENKO, Ye.K.,
red. izd-va; POTAPOV, V.S., red. izd-va; GUROVA, O.A., tekhm. red. [Hydrogeologist's handbook] Spravochnik gidrogeologa. Pod obshchei red. M.E.Al'tovskogo. Moskva, osteoltekhizdat, 1962.

(Water, Underground)

615 p.

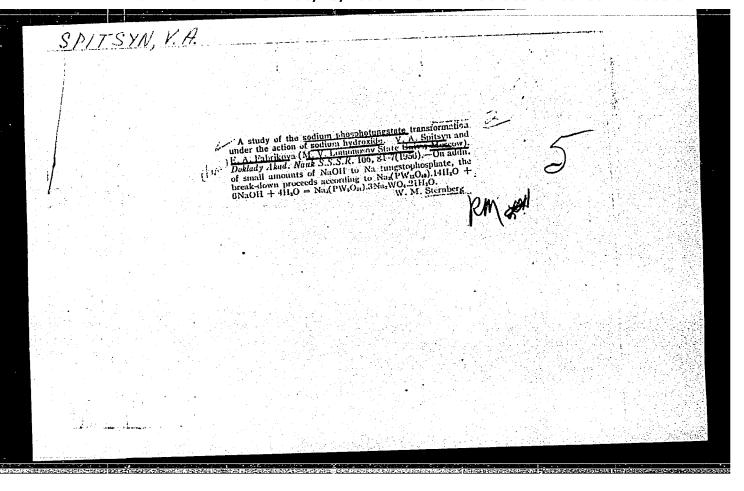
1.	SPITSIN,	Ρ.	D.,	Eng.

- US3R (600)
- Shaft Sinking
- Determining the depth of blast hole in skining vertical mine shafts. Ugol' 28, No. 3, 1953.

1953. Unclassified. Monthly List of Russian Accessions, Library of Congress, May

EWT(m)/EPF(n)-2/EWP(t)/EWP(b) Pu-4 IJP(c) JD/JG L 59283-65 UR/0153/65/008/002/0203/0207 ACCESSION NR: AP5015568 AUTHOR: Zaboyeva, M. I., Spitsyn, P. K. TITLE: Determination of large quantities of niobium by means of differential spectrophotometry SOURCE: IVUZ. Khimiya i khimicheskaya tekhnologiya, v. 8, no. 2, 1965, 203-207 TOPIC TAGS: niobium, niobium compound, spectrophotometry, niobium determination, phosphomolybdate complex ABSTRACT: The determination involved the use of a reaction forming a phosphorusniobium-molybdenum complex (PNMC). The object of the study was to establish the optimum conditions for the formation of PNMC at high niobium concentrations. The effect of various factors on the formation of PNMC was followed by measuring the optical density of the yellow form of this complex in sulfuric acid solutions containing oxalate and tartrate ions. The optimum temperature was found to be 20C (at higher temperatures, only a phosphorus-molybdenum complex (PMC) is formed). The formation of PNMC was complete in 45 min. The optimum content of phosphate, Na<sub>2</sub>HPO<sub>4</sub>·12H<sub>2</sub>O, and molybdate, (NH4)2MoO4, was also determined. The following elements were found to interfere with the determination of niobium: zirconium and titanium (above 0.1 mg), vanadium (0.5 mg), Card

determination of new potassium fluoroni are described. The considerably without the analysis. Original consideration of the considerably without t	nd tungsten (3 mg). obium in technical ni obates were develope ne method of different ut sacrificing accura g. art. has: 3 figures	d on the basis of the dal spectrophotometr cy, and reduces the sand 2 tables.	rfere. Procedures for the talum hydroxide, and above optimum conditions and y accelerates the analysis amount of niobium required for sudarstvennyy universitet im.	
ASSOCIATION: K A.M. Gor'kogo (D	epartment of Analytic	cal Chemistry, Urain	<u>表現を表現していません。 というというはん いんかんがね</u> し	
ASSOCIATION: K A.M. Gor'kogo (D SUBMITTED: 241	ebarament or 1222,	ENCL: 00	SUB CODE: IC	
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SPITSYN, V.A.

Automatic mill for longtitudinal-spiral rolling of twist drills.

Machinostroitel no.12:13 D '61. (MIRA 14:12)

(Rolling mills)

STAYEV, K.P.; SPITSYN, V.A.

Relieving screw-tap profiles in rolling screw threads. Stem.i
(MIRA 14:2)
instr. 32 no.2:11-14 F '61.
(Screw cutting)

S/122/61/000/011/002/006 D221/D301

AUTHOR:

Engineer Spitsyn, V. A.,

TITLE:

A new high-production method of manufacturing work-

pieces with a nelical profile

Vestnik mashinostroyeniya, no. 11, 1961, 50 - 54 PERIODICAL:

The author developed a new high-production method of helical cross-rolling of components with a profile as used for spiral drills. This can be applied to diameters from 1.5 to 12 mm or more. It consists of a single pass rolling of the entire profile by one or two pairs of opposing rollers, inclined in respect of the blank by an angle corresponding to the helice of the drill. Four rollers in the working position form a closed drawing plate of the profile with insignificant clearences between the adjacent rollers. profile with insignificant clearances between the adjacent rollers. This ensures an axial drawing of metal by all-round radial compress sion, and improves the plastic properties of the metal, permitting a single pass rolling of drills from P18 (R18) high-speed steel.

Card 1/3

CIA-RDP86-00513R001652720003-5"

APPROVED FOR RELEASE: 08/25/2000

\$/122/61/000/011/002/006 D221/D301

A new high-production method ...

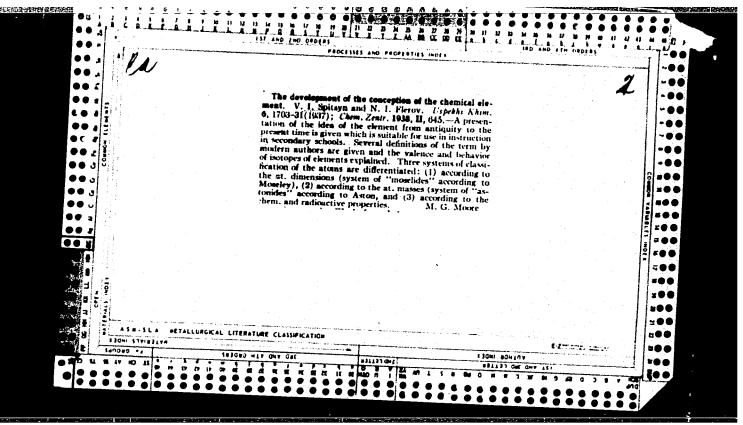
$$L_b = l_t + \frac{l_v}{2.2}$$
 (2.4) mm

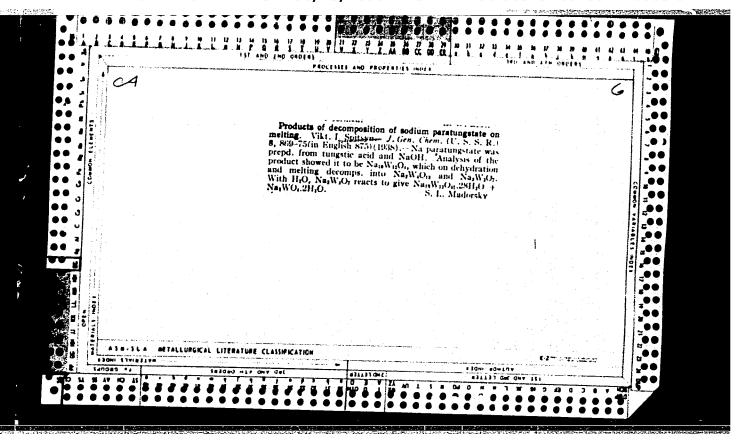
where  $\mathbf{l}_{\mathrm{t}}$  is the length of shank, and  $\mathbf{l}_{\mathrm{w}}$  is the length of the working part of the drill. At the start of the working part there is a defective portion that must be removed and which amounts to 4-5% of the drill length. The metal has a tendency to width expansion during rolling, and therefore, the diameter of the lands exceeds that of the shank by 0.2 to 0.35 mm which is removed by preliminary that of the shank by 0.2 to 0.35 mm which is removed by preliminary centerless grinding. The segments are made in X12 (Khl2M) steel or of other marks. Their hardness is HRC 58-60, and are machined on a relieving lathe. The life of segments is usually 5000-7000 on a relieving lathe. The life of segments is usually 5000-7000 drills after which they must be responded. The metallographic drills, after which they must be reground. The metallographic tests of drills revealed the high quality of rolling without defects and indicated a sorbitic type of pearlite with uniform dist bution of carbides. There is no decarburation. The process ensures a 30% saving of high-speed steel, and a 15-fold reduction of labor compared to milling.

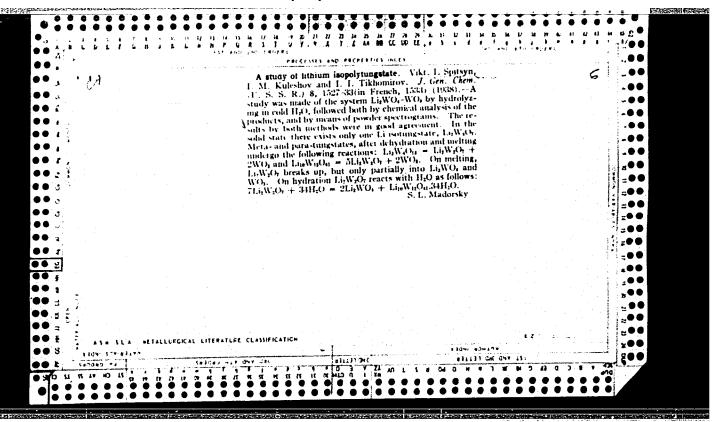
Card 3/3

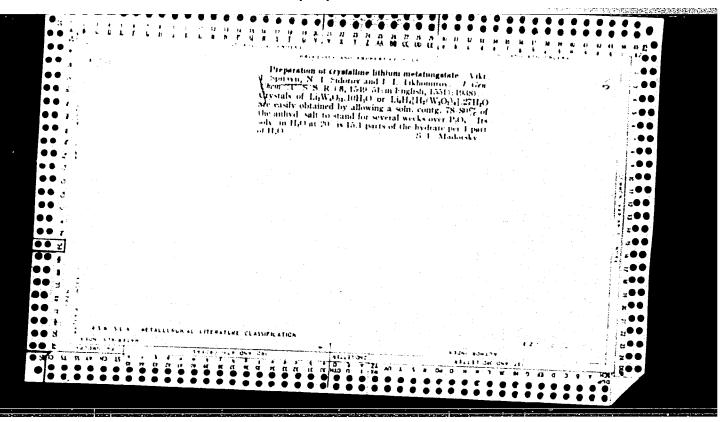
APPROVED FOR RELEASE: 08/25/2000

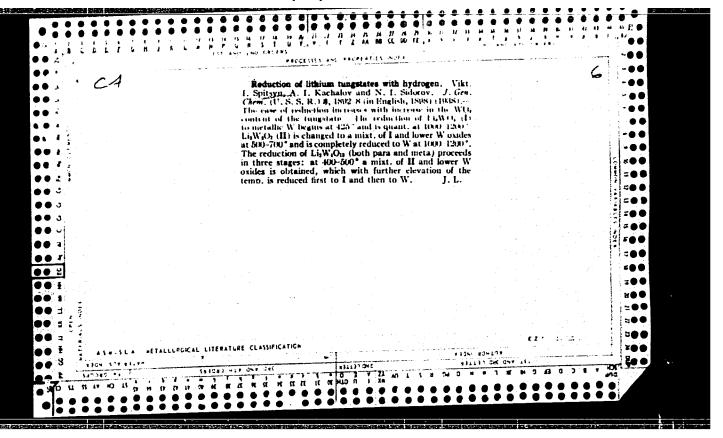
CIA-RDP86-00513R001652720003-5"

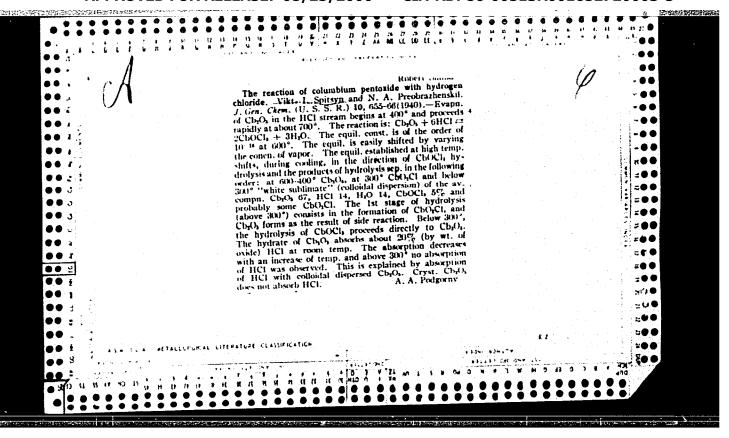


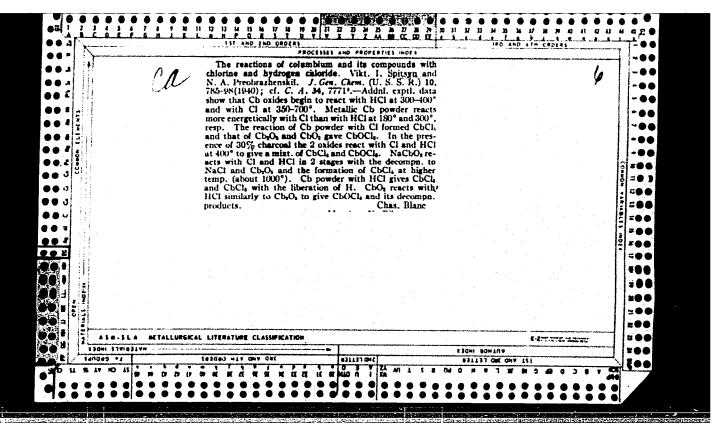








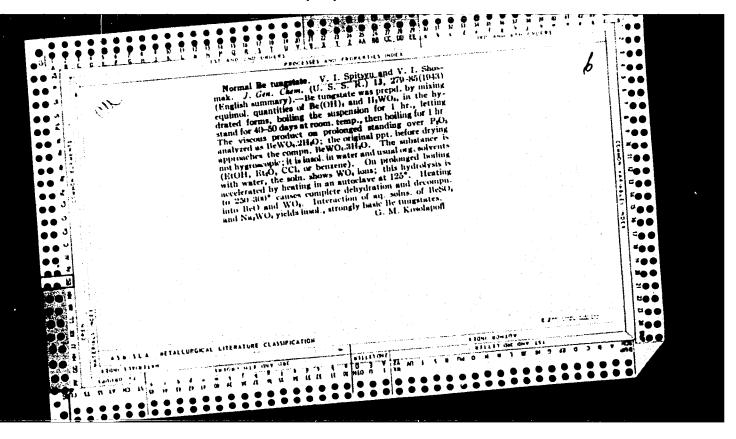


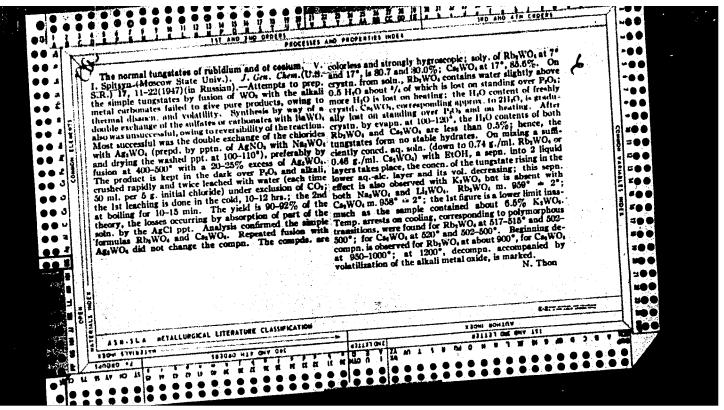


SPITSYN, V.I., PREOBRAZHENSKIY, N.A.

"Chlorination of Niebium and Its Compoinds" Zhur, Obshch., Khim. 10 No. 9, 1940. Lab. of Inorganic Chemistry, Moscow State Pedagogical Inst. imeni K. Libkhekht. rcd. 1 Nov. 39.

Report U-1627, 11 Jan. 52





Thermal stability and volatility of normal siball metal sendates. Vikt. 1 psylizza. and V. 1. Shestak. John (9)-th-hel Alexa, (f. Kien. 1 kenn.) 19, 1801 (1904).

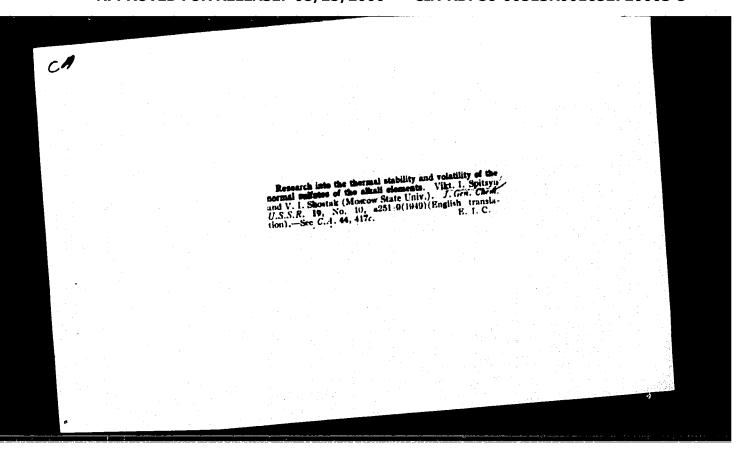
No loss of wi, was found on breating at 1801 (1904).

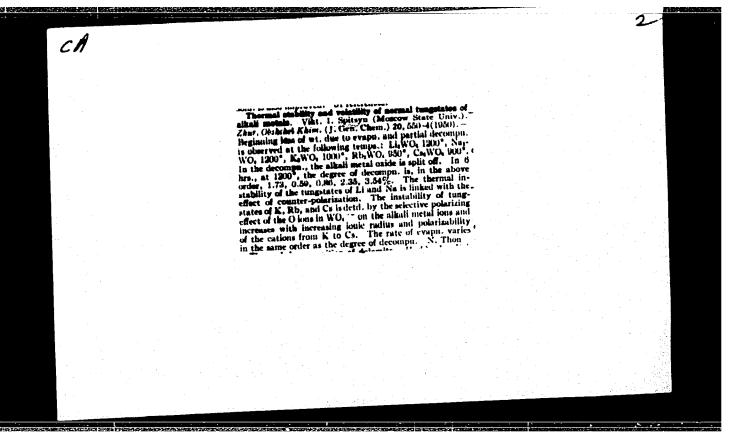
No loss of wi, was found on breating at 1801 (1904).

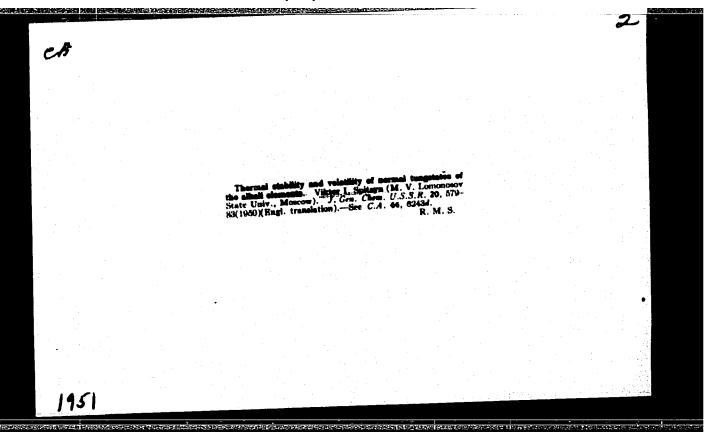
In the same order, the currenge of the following losses (samples of the following losses (samples of the following losses).

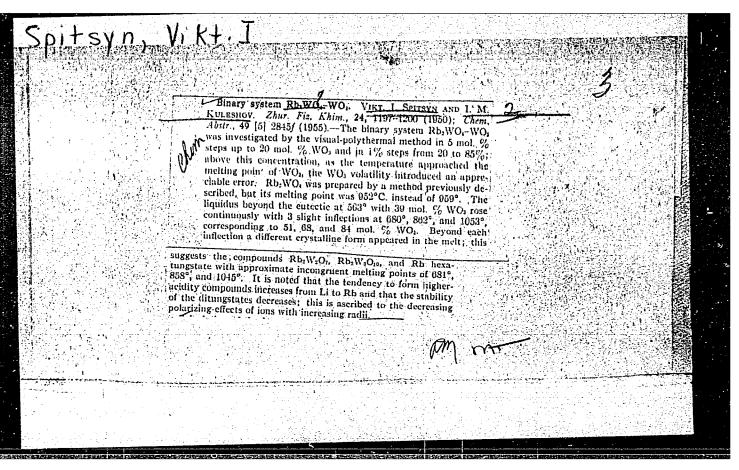
10 26 (1913, fibelity) (10 and 0.27, Capta, 0.23 and 0.05).

In the same order, the currengeousling wt. losses (samples 0.25, 0.31 g.) on 2 hrs. beating at 1201, when the same complex of the same contributions, in an att stream (0.2 1.7min.), 2.50, 0.62, 3.7m. 60 (20.5, him. reduces the loss, possibly as a result of cooling. Decompts of the loss, possibly as a result of cooling. Decompts of the loss, possibly as a result of cooling. Open the cooling of the loss of the loss, possibly as a result of cooling. Open the cooling of the loss of the loss, possibly as a result of cooling. Open the cooling of the loss of the loss, possibly as a result of cooling. Open the cooling of the loss of the loss









DIRTURN, V. I. IL INSTEAD

USSR/Nuclear Physics - Isotopes 21 Apr 50
Periodic Table

"Periodicity of Types of Predominant Isotopes of Elements," V. I. Spitsyn, Corr Mem, Acad Sci USSR, Inst Phys Chem, Acad Sci USSR

"Dok Ak Nauk SSSR" Vol LXXI, No 6, pp 1053-1056

Distribution of predominant isotopes of elements according to types of atoms, e.g., even atoms (4n, 4n+2) and odd atoms (4n+1, 4n+3). Graphs show atomic type according to mass as function of atomic number, for main and secondary groups. Notes definite regularities. Submitted 15 Feb 50.

175**T6**8

### "APPROVED FOR RELEASE: 08/25/2000

### CIA-RDP86-00513R001652720003-5

USSR/Nuclear Physics - Nucleus 1 May 50
Neutrons

"Problem of the Ratio of the Number of Neutrons and Protons in Atomic Nuclei," V. I. Spitsyn, Corr Mem, Acad Sci USSR, Inst of Phys Chem, Acad Sci USSR

"Dok Ak Nauk SSSR" Vol LXXII, No 1, pp 41-44

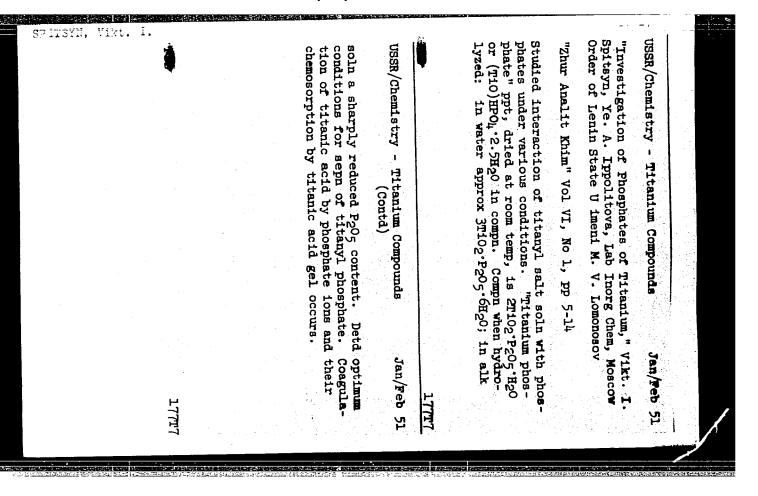
Considers ratio N<sub>II</sub>/N<sub>p</sub> as function of atomic number Z for odd and even elements and predominant isotopes. Gives graph, table, and formulas of N<sub>II</sub>/N<sub>p</sub> vs Z. Submitted 15 Feb 50.

SPITSYN, B.

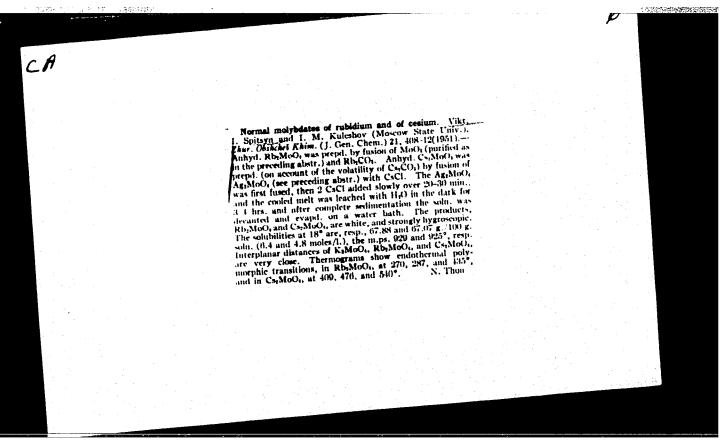
Spitsyn, I. and Kyleshov, I. M. Investigation of the binary system Rb<sub>2</sub> WO<sub>4</sub> - WO<sub>3</sub>. Vict. Page 1197.

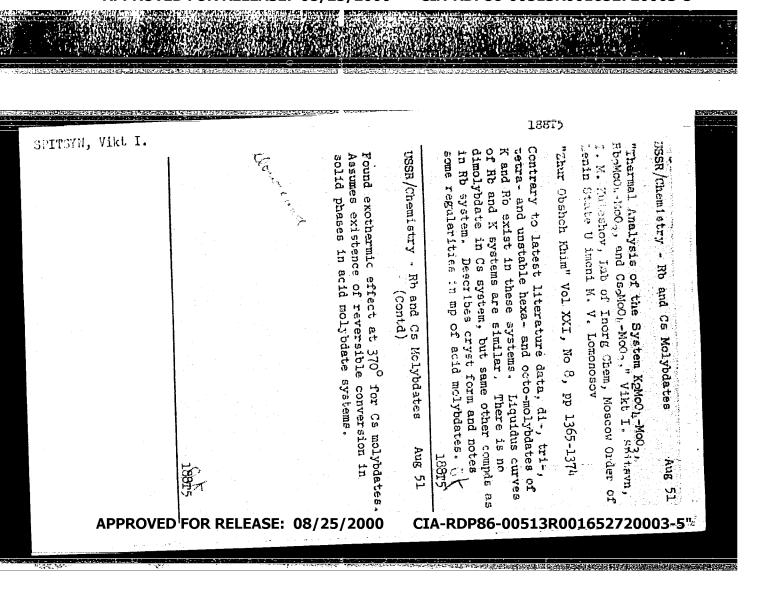
The M. V. Lomonosov Moscow State University February 14, 1950.

SO: Journal of Physical Chemistry, Vol. 74, No. 10. October 1950.

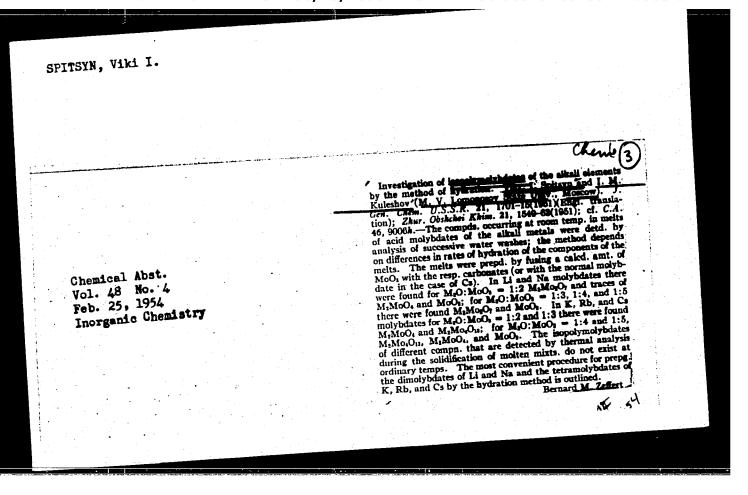


or alkall oxides when heated at 1,200°. Rate of decompn of all compd and rate of evapn of wolframates increased for metals in order Ne, ii, K, Rb, Cs; rate of evapn of molybdates in iii, K, Rb, Cs; rate of evapn of molybdates in 1761.  USSR/Chemistry - Molybdenum and Wolfram Feb Compounds (Contd)  order Li to Cs. Thermal instability of Li and Ne molybdates attributed to growth of contrapolarization processes in compd; instability and evapn of K, Rb, Cs molybdates explained by polarizing action of 0 ions from not fully integrated anions.	UBER/Chemistry - Molybdenum and Wolfram Teb Compounds  Investigation of Thermal instability and Tola- tility of Normal Molybdates of Alkali Elements, Yikt. I. Spitsyn, I. M. Kuleshov, Lab Inorg Chem, Moscov State U  "Zhur Obshch Khim" Vol XXI, No 2, pp 401-406 Mormal molybdates and volframates of alkali metals evapd considerably and decompd with sepa	
rides when heated at 1,200 of all compt and rate of e increased for metals in o Cs; rate of evapn of molyb Cs; rate of evapn of molyb Cs; rate of evapn of molyb Compounds (Contd)  Cs. Thermal instability is sattributed to growth of processes in compd; instability action of 0 ions from no anions.	Componing to the control of Thermal Molybda (tsyn, I. M. 1 state U h Khim" Vol X bdates and vol d considerabl	
ested at 1,200 and rate of e or metals in o evapn of molyb counds (Contd)  l instability of to growth of in compd; instability molybdates experience on no from no control of the control of the compd; instability molybdates experience of the control of the contr		
	min and Wolfram ands  'Instability & bes'of Alkali E Kuleshov, Lab I Kuleshov, Lab I Kuleshov, Ba I Kuleshov, B	
1,200°. Rate of evapn of a in order Ma, molybdates in 176m   176m	Lity and Tolkali Element Lab Inorg pp 401-406 pp 401-406 of alkali ompd with se	
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SPITSYN, Vikt. I.		191733
K, Rb, 5McO3, ble isc K, Rb, decomp decomp then we then hydra	"Investigation of Isopolymolybdates of Alexandrian Hethod," Vikt. I. Elements by the Hydration Method," Vikt. I. Spitsyn, I. M. Kuleshov, Isb Inorg Chem, Moscow State U imeni M. V. Lomonosov State U imeni M. Vol XXI, No 9, pp 1549-1563 "Zhur Obshch Khim" Vol XXI, No 9, pp 1549-1563 "Zhur Obshch Khim" Vol XXI, No 9, pp 1549-1563 "Zhur Obshch Khim" Vol XXI, No 9, pp 1549-1563	UBSR/Chemistry - Molycderum
Rb, Cs foO3, fc foO3, fc Rb, Cs Rb, Cs Rb, Cs Rb, Chen ISSR/Chen then to hydratio	stig	CD
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SPITSYN; Vikt. I.

Chemical Abst.
Vol. 48 No. 4
Feb. 25, 1954
Inorganic Chemistry

The thermal stability and volatility of the isopolymolybdates of the alkali elements. Vikt. J. Spitsyn and L. M. Ameshov (M. V. Lomonosov 1940 Univ., Moscow). J. Gen. Chem. U.S.S.R. 21, 1717-22 [1951] (Engl. translation); Zhur. Obshchei Khim. 21, 1564-70(1951); cf. C.A. 45, 5553i, 5554f.—Calcining melts of the acid molybdates at 1000 and 1200° results in an appreciable loss of MoO<sub>1</sub> and in the evapn. of certain molybdates. At ratios of MoO<sub>2</sub>: M<sub>2</sub>O in the melt greater than 3:1 practically nothing but MoO<sub>2</sub> is evapd. When M<sub>2</sub>O.5MoO<sub>2</sub> melts are heated to const. wt. at 1000°, they yield the following residues: Li<sub>2</sub>O.1.5MoO<sub>1</sub>. Na<sub>2</sub>Mo<sub>2</sub>O<sub>2</sub>, K<sub>2</sub>Mo<sub>2</sub>O<sub>3</sub>, Rb<sub>2</sub>Mo<sub>1</sub>O<sub>4</sub>, and Cs<sub>3</sub>Mo<sub>2</sub>O<sub>10</sub>. The dimolybdates of Li and Na, and the trimolybdates of K, Rb, and Cs are the most stable at 1000-1200°. Stability relationships are related to the polarizing effects of the metal ions; the lower the polarizing effect the more complex the anion of the polymolybdate that can be stably assocd, with it.

Remard M. Zeffert

SPITSYN, V.I., prof., red.; LAPITSKIY, A.V., red.; ORLOVA, N.S., tekhn.red.

[Radiochemistry; collected works] Radiokhimiia; sbornik rabot. Pod red. V.I.Spitsyna. Moskva, 1952. 358 p. (MIRA 19:6)

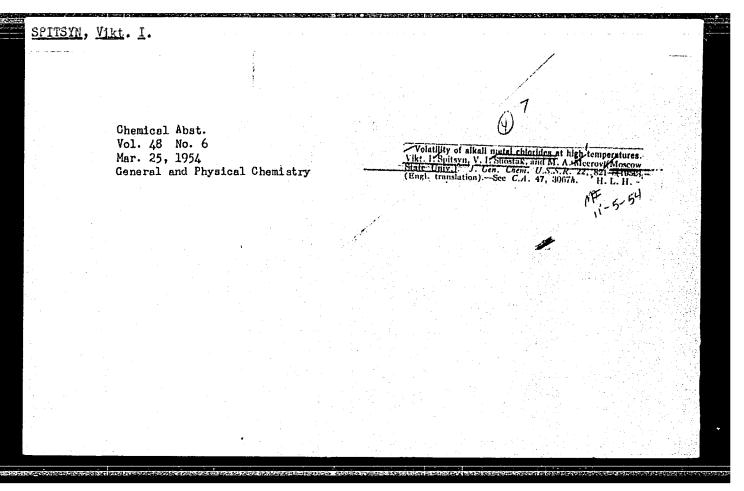
1. Moscow. Universitet. 2. Chlen-korrespondent AN SSSR (for Spiteyn).

(Radiochemistry)

SPITSYN, V.I., SHOSTAK, V. I., and MEYEROV, M. A.

"Investigation of the Volatility of hlorides of Alkali Metals at High Temperature," Lab. of Inorg. Chem., Moscow State U., Zhur. Obshch. Khim., 22, No.5, pp 758-765, 1952

The temp condtns of the beginning of visible evaporation of chlorides of alkaline elements in gaseous media (air, hydrogen chloride, water vapor) were studied. In air, volatilization starts at the following temp: LiCl 550°, NaCl 750°, KCl 650°, RbCl 650°, CsCl 550°. The volatilization temps in a flow of hydrogen chloride or water vapor were the same within a range of = 50°. The above compds become visibly volatile at temps 50 to 120° lower than their melting points. Vaporization proceeds considerably faster in a stream of water vapor than under heating in air or in hydrogen chloride. At the temps of the expt (550-800°) this process is not accompanied by hydrolysis.



SFITSYN, V. I.

# USSR/Chemistry - Alkali Metals

Jun 52

"Investigation of the Pyrosulfates of Alkali Metals," V. I. Spitsyn, M. A. Meyerov, Lab of Inorg Chem, Moscow State U imeni M. V. Lomonosov

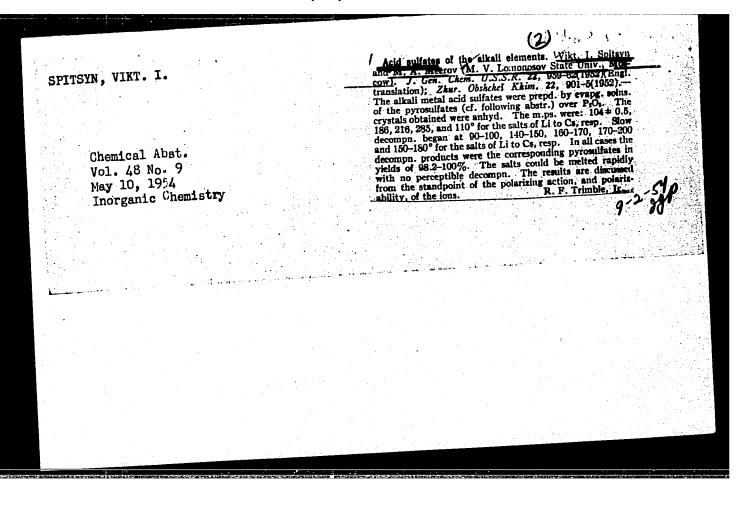
"Zhur Obshch Khim" Vol XXII, No 6, pp 905-912

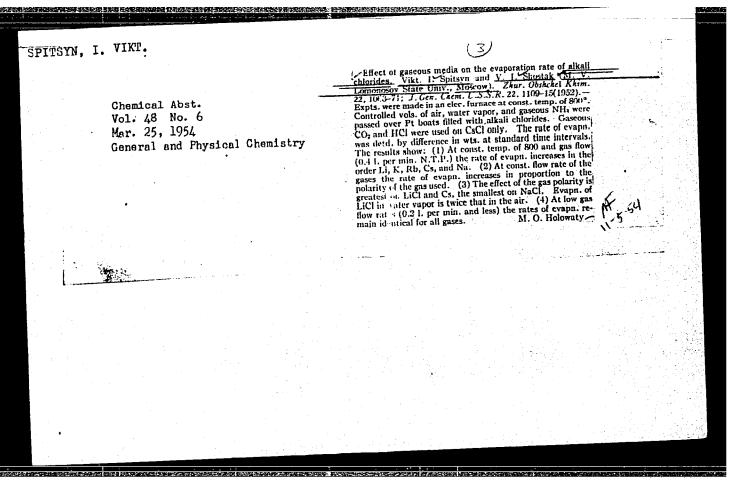
The pyrosulfates of all alkali metals were prepd and characterized.

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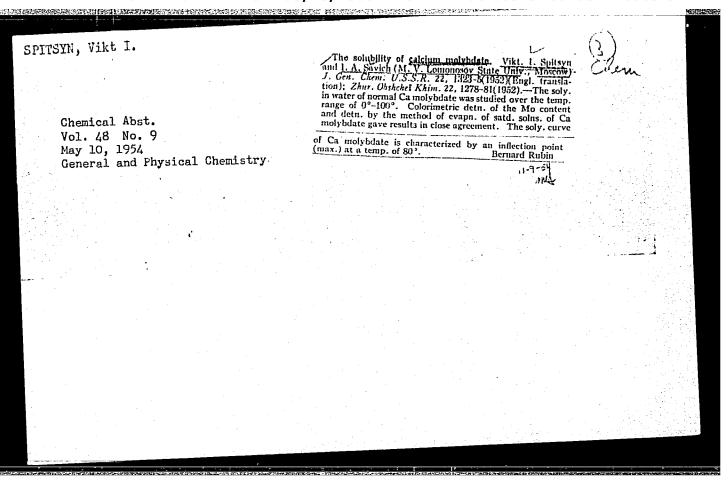
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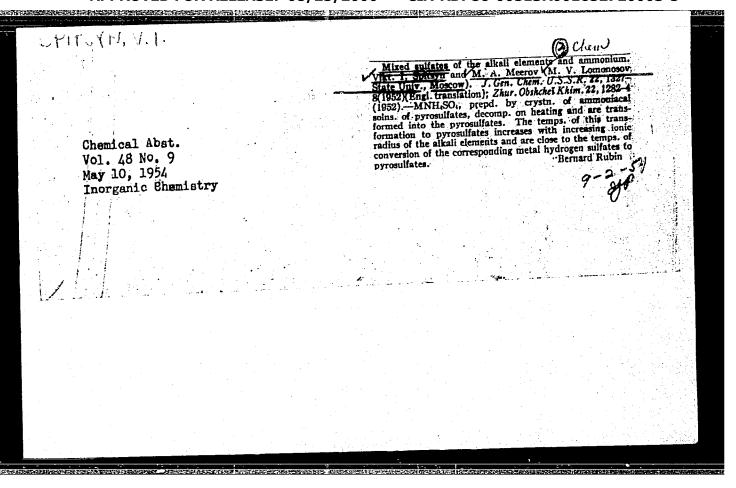
### CIA-RDP86-00513R001652720003-5





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SPITSYN, Vikt I.		1		6	وهاويت المريسيان	
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Chemical Vol. 48 Mar. 25;	No. 0 -	Volati Vikt. IV Univ. Gen. Ch 0.1N so tility of	ity of alkali chlori Soitsyn and M. A. Moscow). Zhur. em. U.S.S. R. 22, as. of LiCl, KCl, chlorides from th	des from their aqueous Mecroy M. V. Lomon Obsi-hei Khim. 22, 1 1117-18(1952).—Detns RhCl, and CsCl showe he aq. solns. M. O. H	solutions. psov State 771–3; J. made on d no vola- olowaty	
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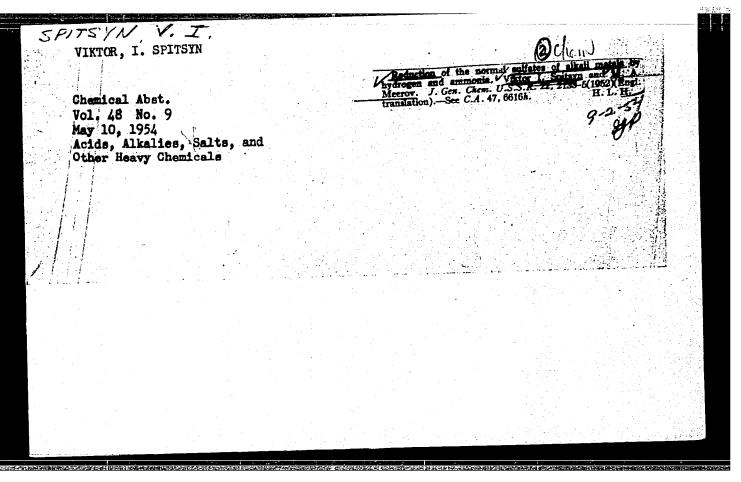




SPITSYN, Vikt. I.; MEEROV, M.A.

Reduction of the normal sulfates of alkali metals by hydrogen and ammonia. Zhur. Obshchey Khim. 22, 2079-83 52. (MLRA 6:2) (CA 47 no.13:6616 53)

1. M.V. Lomonosov Sate Univ., Moscow.



Calcium Molgistate

Investi adden of the solutility of calcium solutions. Show of Main. 22, oc. 9, 1952.

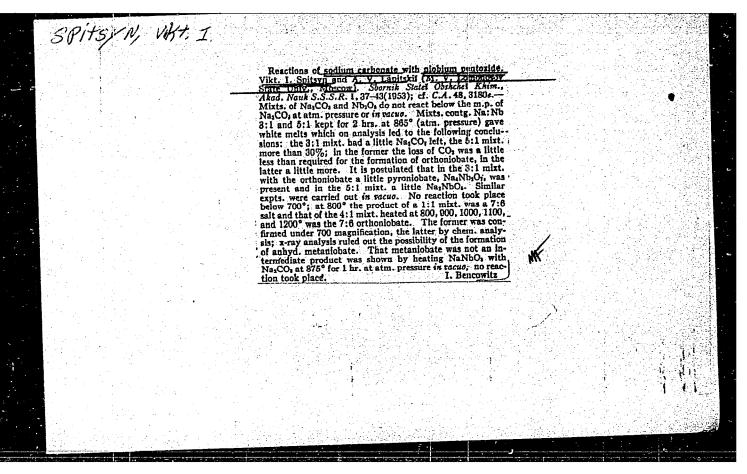
Investi adden of the solutility of calcium solutions. Show of Main. 22, oc. 9, 1952.

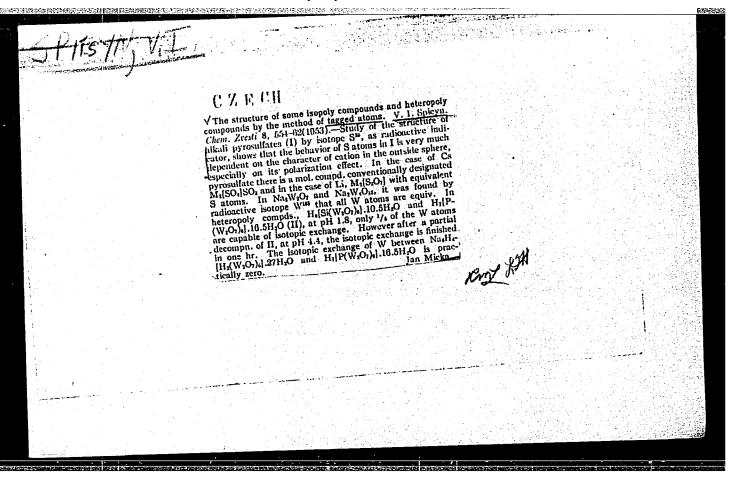
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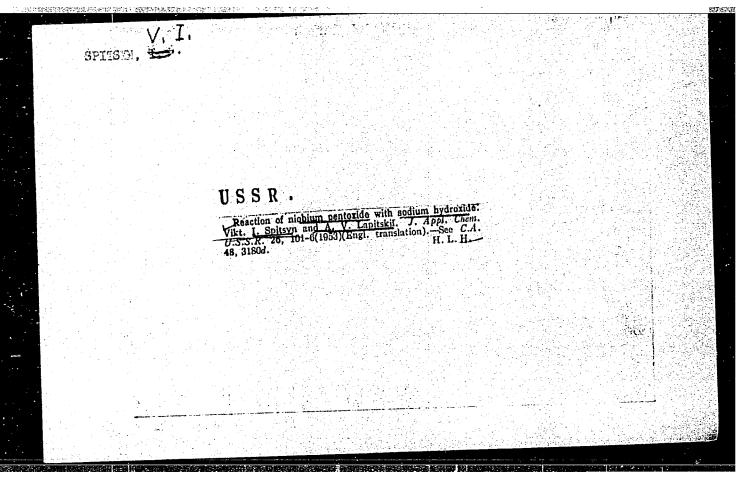
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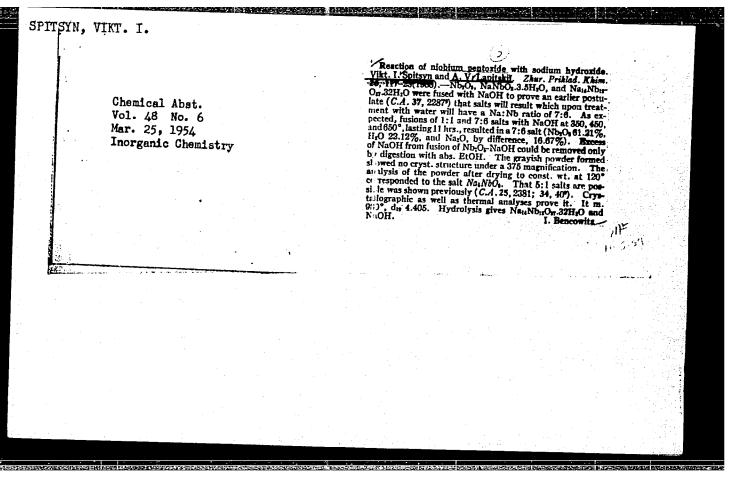
Dehydration and thermal decomposition of some heteropoly composeds. V. I., Soitsym and I. D. Kolii (M. V. Lorsonsonv State Univ., Moscow). Dehlady Abad. Nauk S.S.S.R. 83, 239-42(1952).—Changes of wt. on heating S.S.S.R. 83, 239-42(1952).—Changes of wt. on heating composition of the composition of

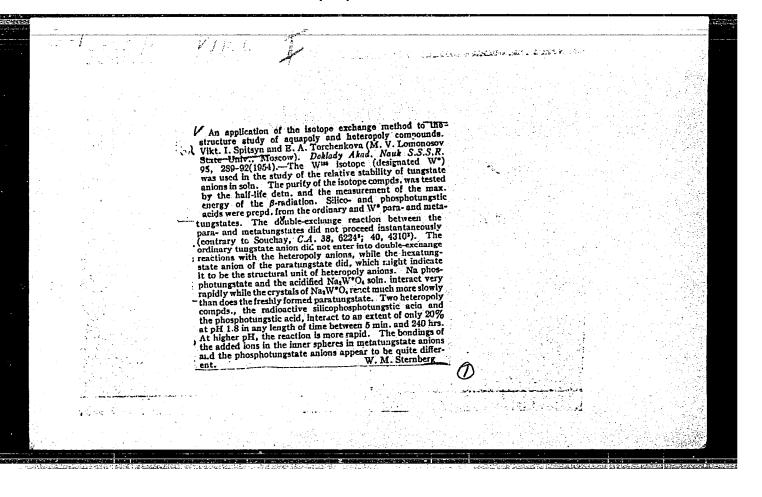
slower. Further dehydration of II proceeds in 3 stages, and of IV and V in 2 stages. II keeps 0.5 H<sub>2</sub>O on heating at 350–460°; IV and V keep 1 H<sub>2</sub>O at 240–480° and 131–400°, resp. III gives up H<sub>2</sub>O up to 220°, when the amt. of H<sub>2</sub>O left goes down to 3 mols.; there is no further dehydration up to 300°. Above 360°, more H<sub>2</sub>O is lost in a continuous way; 300°. Above 360°, more H<sub>2</sub>O is lost in a continuous way; and the monohydrate is stable in the temp. range 440–60°, and the benulhydrate at 480–500°. In IV and V, H<sub>2</sub>O is bound the benulhydrate at 480–500°. In IV and V, H<sub>2</sub>O is bound the benulhydrated more easily than IV. In 12 hrs', treatment is dehydrated more easily than IV. In 12 hrs', treatment with H<sub>2</sub>O (at room temp.) of the salts dehydrated at 200°, I was found to give a small amt. of insol. residue; with II was found to give a small amt. of insol. residue; with II was found to give a small amt. of insol. residue; with II was found to give a small amt. of insol. residue; with II was found to give a small amt. of insol. residue; with II was found to give a small amt. of insol. residue; with II was found to Willow (Willow). 15H<sub>2</sub>O, only above 300°. Phosphotungstates (Willow). 15H<sub>2</sub>O, only above 300°. Phosphotungstates hows a marked deficit of WO, relative to the amt. of alkali. With marked deficit of WO, relative to the amt. of alkali. With marked deficit of WO, relative to the amt. of alkali. With marked towards existing views on the constitution of heteroatitude towards existing views on the constitution of heteroatic towards

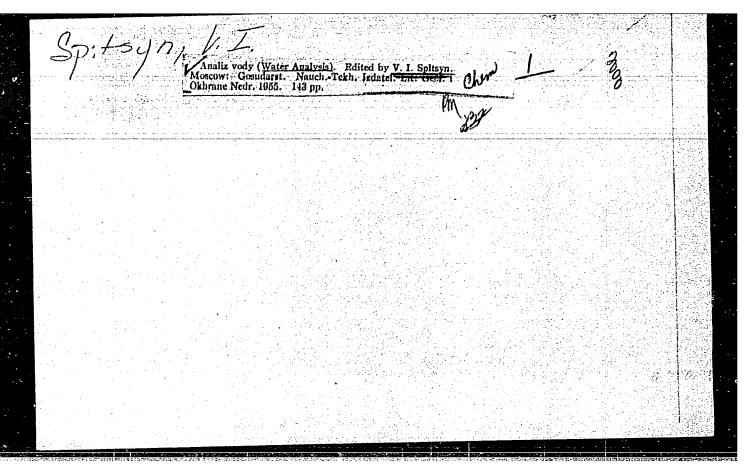


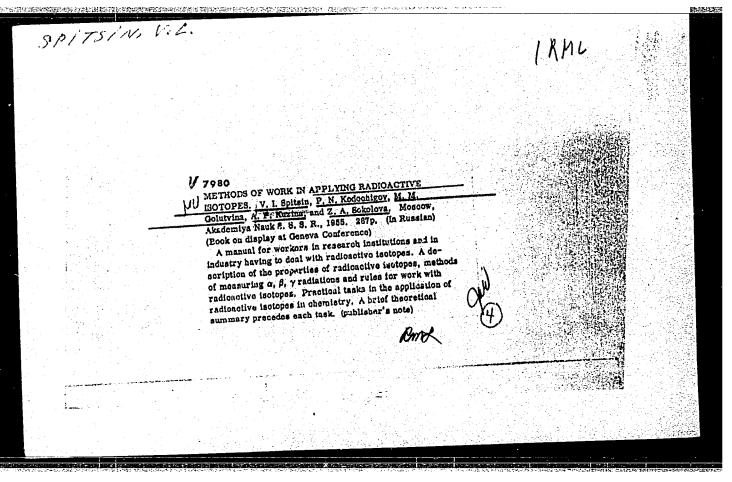












SPITSYN, V. I. and SHOSTAK, N. Z.

"Preparation of anhydrous beryllium chloride on a larger scale laboratory installation by chlorination of a mixture of beryllium oxide with carbon", Khimiya Redkikh Elementov, No. 2, p 85, 1955.

A description of the laboratory installation in which a high purity beryllium chloride with a 90% utilisation of chlorine can be obtained, as well as rawmaterials used and the method of operation.

SO: D-413171

"A study of the process of chlorination of a mixture of beryllium oxide with carbon," Khimiya Redkikh Elementov, No. 2, p 93, 1955.

The optimum condition for the chlorination reaction were: established temp. 900-950°C, BeO to carbon ratio 2: 1; briquetting of the mixtrue with subsequent ignition to 850°C increases the reaction velocity. the Maximum utilisation of beryllium oxide 89-92% and that of chlorine 84-89%. The linear velocity of chlorine has a strong influence on the crystal size of beryllium chloride produced.

so: D--413171

Testing the structure of some complex compounds by the method of marked atoms.

p. 209.

ROCZNIKI CHAIL, Marszawa, Vol. 29, no. 2/3, 1955.

So: Honthly List of East European Accessions, (MEAL), LC, Vol. 4, no. 10, Oct. 1955, Uncl.

### CIA-RDP86-00513R001652720003-5 "APPROVED FOR RELEASE: 08/25/2000

USSR/ Chemistry - Mendeleyev's law

Card 1/1

Pub. 86 - 1/35

Authors

: Spitsyn, V. I., Mem. Corresp. Acad. Sc. USSR

Title

D. I. Mendeleyev's periodic law

Periodical:

Priroda 44/2, 3 - 14 Feb 1955

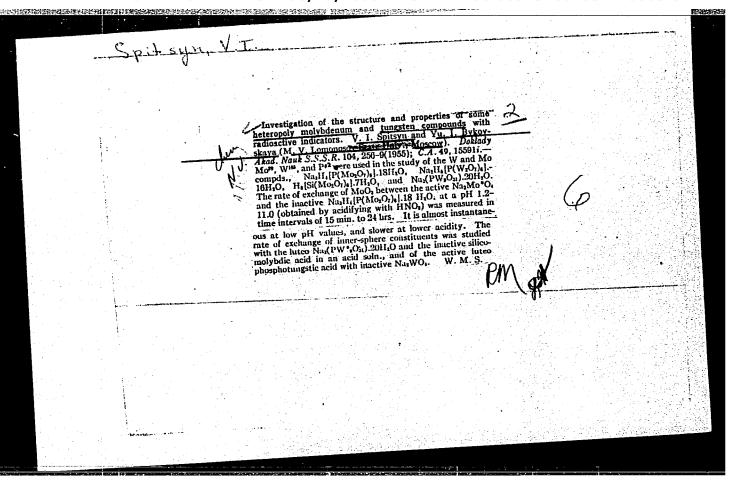
Abstract

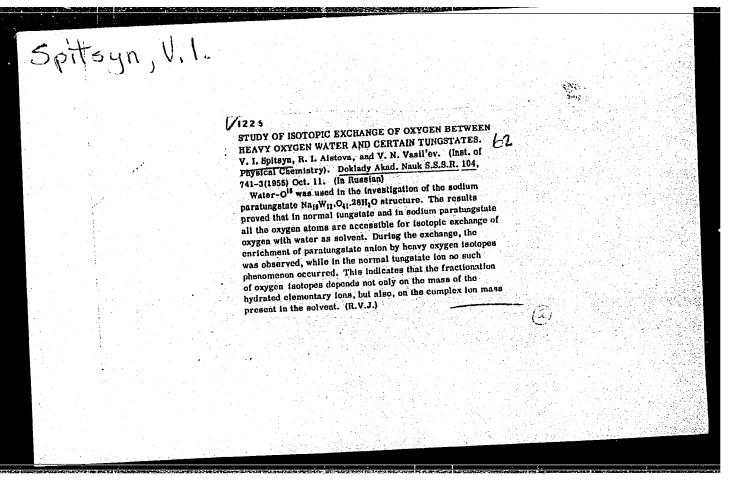
An account is given of Mendeleyev's discovery of the periodic law and his other activities such as the study of the periodicity of the spectra of elements. The working of the periodic table is explained with examples, its usefulness in discovering previously unknown elements is pointed out, and the way in which the existence of isotopes was harmonized with the law is recounted. The structure of the atom is also dealt with. Graphs; table;

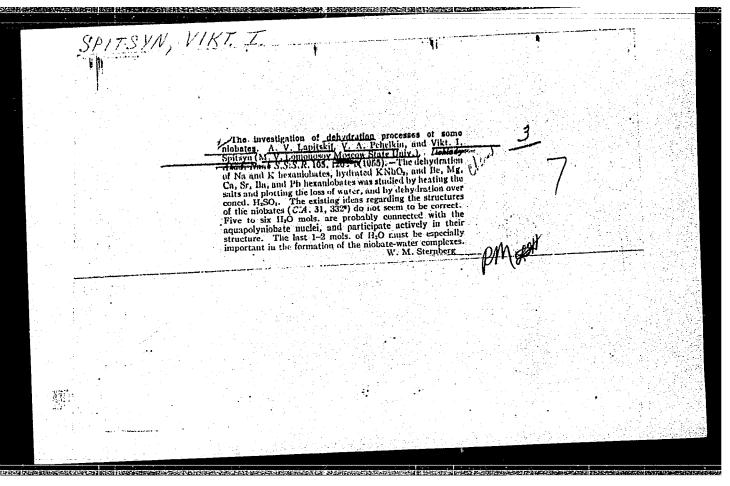
illustration.

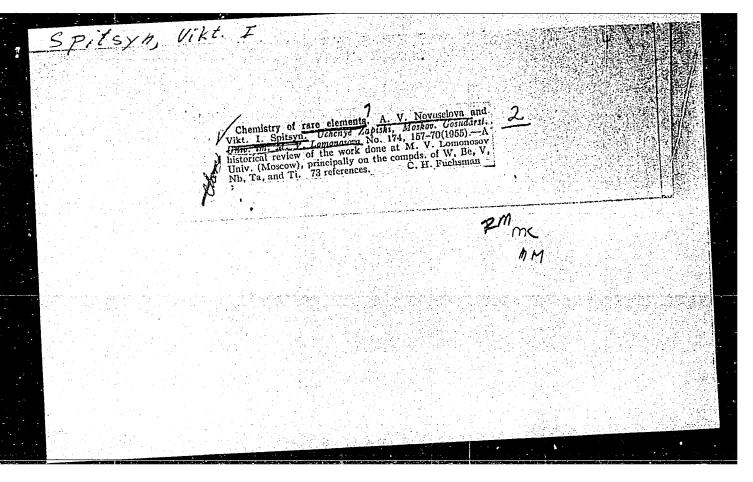
Institution:

Submitted









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SPITSYN, VIKT. I

USSR/Inorganic Chemistry - Complex Compounds

Abs Jour

: Referat Zhur - Khimiya, No 2, 1957, 4108

Author

Title

Investigation of the Process of Dehydration and Thermal

Decomposition of Potassium Silicotungstate

Orig Pub

Zh. neorgan. khimii, 1956, 1, No 3, 445-459

Abstract

To study the isobaric and isothermal dehydration of the hydrates of 4-substituted silicotungstate of potassium (I) use was made of quartz spiral belance. The existence of hydrates containing 10, 5, 1.5, 1.25 and 0.5 H20 was ascertained. Most strongly are retained 0.5-1 mole H20. With such a degree of dehydration the salt adds reversibly 8 moles of H<sub>2</sub>O. Final dehydration and complete decomposition of the salt occur at 5000. Results of tensimetric investigation are in agreement with the data on dehydration on the quartz balance. Thermal analysis of I reveals 4 endothermal effects

Card 1/2

\_ 22 -

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652720003-5"

Card 2/2

C.

SPITSYN, VIKT. J

USSS/Inorganic Chemistry - Complex Compounds

: Referat Zhur - Yhimiya, No 2, 1957, 4109

Abs Jour Kolli, I.D., Pirogova, G.N., Spitsyn Vikt, I. Dehydration of Sodium Metatungstate

Author Title

: Zh. neorgan, khimii, 1956, 1, No 3, 470-177 Orig Pub

Dehydration of sodium metatungstate (I) was investigated Abstract

by several procedures: on a quartz balance; by Van Bemmelen's method in desiccators over sulfuric acid of different concentration; on continuous operation balan-

ce by heating in the air at different temperatures Ascertained was the existence of hydrates containing per 1 mole of Na<sub>2</sub>0.4WC<sub>3</sub>, 10, 4-5, 2-5, 2, 1.5 and 0.2-0.3 H<sub>2</sub>0.

Determined were the temperature conditions of the existence of hydrates and water vapor tensions during their dis-All the hydrates are soluble in water; after

a complete dehydration  $\underline{\mathbf{I}}$  is no longer soluble in water.

Card 1/2

- 24 -

# APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652720003-5" USSR/Inorganic Chemistry - Complex Compounds

: Referat Zhur - Khimiya, No 2, 1957, 4109 Abs Jour

Over concentrated H2SO4, I forms a 2-hydrate, 9.8 moles of H20 being removed reversitly and 0.2 mole irreversi-Most strongly are retained 0 2-0.3 mole H20; calculated on the basis of the coordination formula

 $Na_6H_4$   $\left[H_2(W_2O_7)_6\right]$  this quantity amounts to 0.6-0.9 mole.

Complete dehydration takes place at 280°,

Card 2/2

- 25 -

SPITSYN VIKTI

C

· SPITSYN V.I

USSR/Inorganic Chemistry. Complex Compounds.

: Referat. Zhurnal Khimiya No 6, 1957 1884): Abs Jour

: V.A. Pchelkin, A.V Lepitskiy, V.I. Spitsyn

: Study of Isotopic Interchange Among Salts of Nio-Author Inst

bic Acid of Various Types. Title

: Zh. Neorgan. Khimii, 1956, 1. No 4, 341-851 Orig Pub

Using Nb95 the isotopic interchange in the heterogenous system of K14Nb12037.27H2) (1) and KNb)3. Abstract

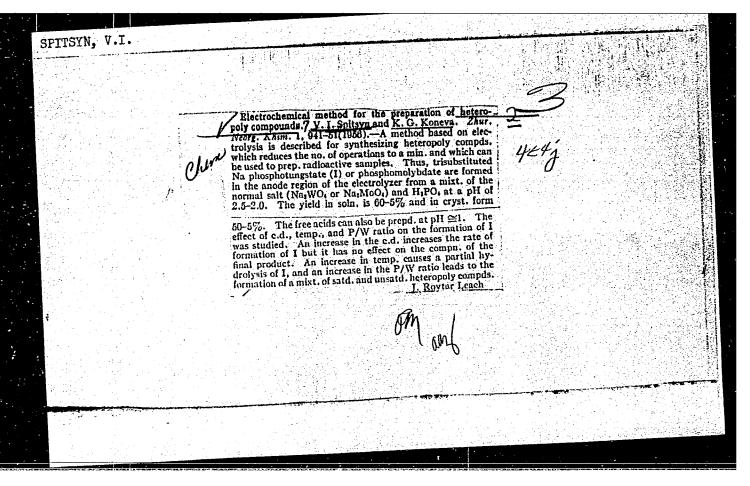
2H<sub>2</sub>O at 200 was studied. The interchange between the precipitates I and II and saturated solutions of I and II occurs practically instantly in the amount of 60% and does not increase further in the course of time. The solubility of I in the saturated solution of II is 0.0123 g/ml at 200. Taking into consideration the constancy of the refraction indices of the initial niobates and of the bottom phases,

the authors conclude that I and II do not interact one

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#### CIA-RDP86-00513R001652720003-5 "APPROVED FOR RELEASE: 08/25/2000

c.

USSR/Inorganic Chemistry - Complex Compounds.

6 111. I.

: Ref Zhur - Khimiya, No 9, 1957, 30328 Abs Jour

Spitsyn Vikt. I., Lapitskiy, A.V. Author

Inst

: Thermographic Study of the Process of Interaction of

Title Niobium Pentoxide with Caustic Soda.

: Zh. neorgan. khimii, 1956, 1, No 8, 1771-1775 Orig Pub

: By a thermographic study of mixtures of Nb,05 (I) and Abst

NaOH (II), taken in different proportions by weight, it was ascertained that I reacts with II at 130 to form Na<sub>5</sub>-NbO<sub>5</sub> (III), which is present in the alkali melt in equilibrium with the excess of II. It is shown that the

niobates: NaNb03.3.5H20, Na,4Nb, 037.32H,0 (IV) and NaNbO3 interact at above 100° with II to form III. Thus III is formed in melts containing excess II. The authors assume that the process of interaction of Na-niobates with II takes place with a slight exothermic effect but

the latter is masked by the endothermic effect of the

Card 1/2

CIA-RDP86-00513R001652720003-5"

APPROVED FOR RELEASE: 08/25/2000

C.

USSR/Inorganic Chemistry - Complex Compounds.

: Ref Zhur - Khimiya, No 9, 1957, 30329 Abs Jour

: Lapitskiy, A.V., Spitsyn Vikt.I., Pchelkin, V.A., Author

Simanov, Yu.P.

Abst

Sillein, VIII.

: Thermographic and Roentgenographic Study of the Process Inst Title

of Dehydration of the Niobates of Sodium and Potassium.

: Zh. neorgan. khimii, 1956, 1, No 8, 1776-1783 Orig Pub

: Study of the process of dehydration of hexa- and metanio-

bates: Na,4Nb,2037.32H,0 (I), K,4Nb,2037.27H,0 (II),

NaNbO3 .3.5H,0 (III) and KNbO3 .2H,0 (IV), by means of a

continuous operation balance, a McBain balance and a Kurnakov pyrometer. The existence of the following hydrates was confirmed: of I with 6, 4 and 2 molecules of H<sub>2</sub>O, in the respective temperature ranges, 80-1150,

Card 1/2

USSR/Inorganic Chemistry - Complex Compounds.

C.

Abs Jour : Ref Zhur - Khimiya, No 9, 1957, 30329

200-225° and 300-320°; of II with 9 (?), 6, 4 and 2 molecules of H<sub>2</sub>O, the region of stability of the nonihydrate being very limited, while the other hydrates were detected at 120, 180 and 300-350°, respectively; of III with 1 molecule of H<sub>2</sub>O at 80°, and with 0.5 H<sub>2</sub>O in the range 100-120°; of IV with 0.36 and with 0.2 H<sub>2</sub>O, at 100 and 160°, respectively. Roentgenograms of I, II, III and IV show a large number of lines. The intermediate hydrates formed during dehydration differ, in their crystalline form, from the initial salts and are characterized by fine dispersion. After complete dehydration of I, II, III and IV, the roentgenograms show the sharp lines of anhydrous NaNbO<sub>3</sub> and KNbO<sub>3</sub>.

Card 2/2

PCHELKIN, V.A.; LAPITSKIY, A.V.; SPITSYN, Vikt.I.; SIMANOV, Yu.P.

Thermography and radiography of the dehydration of hexaniobates of certain bivalent metals. Zhur.neorg.khim. 1 no.8:1784-1793 Ag '56. (MLRA 9:11)

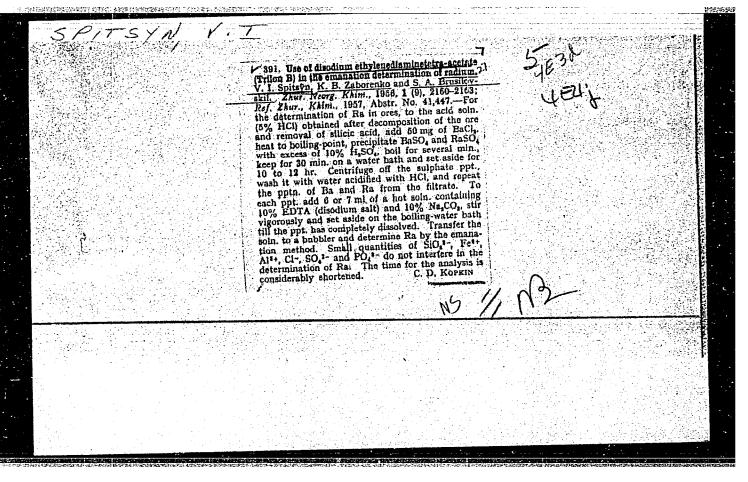
 Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova, Kafedra neorganicheskoy khimii. (Dehydration) (Niobates)

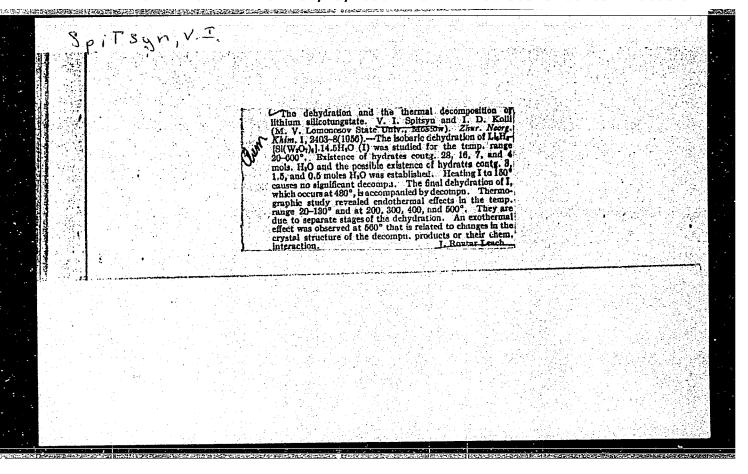
SPITSYN, Vikt.I.; TORCHENKOVA, Ye.A.

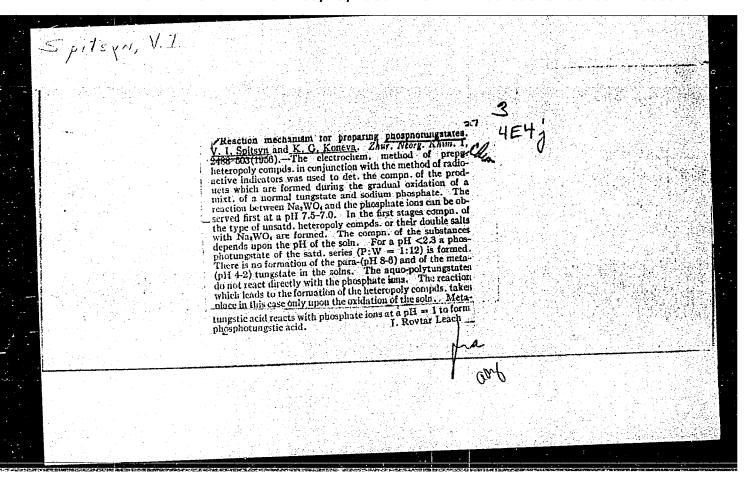
Study of the conversions of p-tungstate ion in solutions with the aid of a mixed sodium-cesium salt. Zhur.neorg.khim. 1 no.8:1794-1797 (MLRA 9:11)

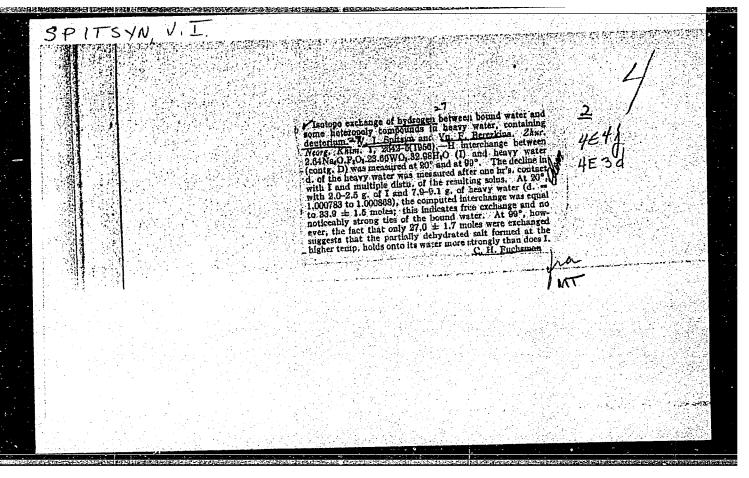
Ag \*56.

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova, Laboratoriya neorganichiskoy khimii. (Tungstates)









SAVICH, I.A.; PIKAYEV, A.K.; LEBEDEV, I.A.; SPITSYN, Victor I.

Complex compounds of hexavalent uranium with certain organic substances.

Part 1: Internal complex compounds of uranium with certain Schiff bases.

Zhur, neorg, khim, 1 no.12:2736-2741 D 156. (MIRA 10:6)

1. Moskovskiy Gosudarstvennyy universitet imeni M.V. Lomonosova, Kafedra neorganicheskoy khimii.
(Gomplex compounds) (Uranyl compounds) (Schiff bases)

SAVICH, I.A.; PIKAYEV, A.K.; RYKOV, A.G.; SPITSYN, Viktor I.

Complex compounds of hexavalent uranium with certain organic substances. Part 2: Internal complex salts of the uranyl ion with certain derivatives of 2-naphthol and 1,2-naphthoquinone. Zhur, neorg, khim, 1 no.12:2742-2745 D 156. (MIRA 10:6)

l. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova, Kafedra neorganicheskoy khimii. (Complex compounds) (Uranyl salts) (Naphthol)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652720003-5"

SPITSYN, V. I., SAVICH, I. A., RYKOV, A. G., and PIKAYEV, A. K.

"Complex Compounds of Hexavalent Uranium With Some Organic Substances; Part 3 -- Precipitation of Uranium From Aqueous Solutions by Mesns of Some Substances Related to 1-Nitroso-2-Naphthol," by I. A. Savich, A. K. Pikayev, A. G. Rykov, and V. I. Spitsyn, Moscow State University, Zhurnal Neorganicheskoy Khimii, Vol 1, No 12, Dec 56, pp 2746-2748

It has been established that 3-bromo-1,2-naphthoquinonemonoxime-1 can be used as a precipitant for uranium. The precipitation of uranium with this reagent is complete and takes place at p<sub>H</sub> = 2.7. It has furthermore been established that 3,4-dichloro-1,2-naphthoquinonemonoxime-1 cannot be used as a reagent for the precipitation of uranium.

Sum 1258

SPITSYN V.I.: KAPUSTINSKIY, A.F.; KOZIOV, V.V., doktor khimicheskikh nauk.

Hungarian chemical congress. Izv.AN SSSR.Oti.khim.nauk no.5:635-640

My '56.

1.Chlen-korrespondent AN SSSR (for Spitsyn, Kapustinskiy).

(Hungary--Chemistry--Congresses)

SAVICH, I.A.; PIKAYEV, A.K.; LEBEDEV, I.A.; SPITSYN, Vikt.I.

Synthesis of the series of Schiff bases formed from aromatic o-oxyaldehydes and heterocyclic amines. Vest.Mosk.un. Ser.mat., mekh., astron., fiz., khim.ll no.1:225-231 156. (MIRA 10:12)

1. Kafedra neorganicheskoy khimii Hoskovskogo universiteta.
(Aldehydes) (Bases (Chemistry)) (Amines)

SPITSYN VIKT. L.

SAVICH, I.A.; ZELENTSOV, V.V.; SPITSYN, Vikt.I.

Synthesis of the series of Schiff bases formed from 2-oxy-1-naphtaldehyde and certain amines. Vest.Mosk.un. Ser.mat.,
mekh.,astron.,fiz.,khim.ll no.1:233-237 '56. (MIRA 10:12)

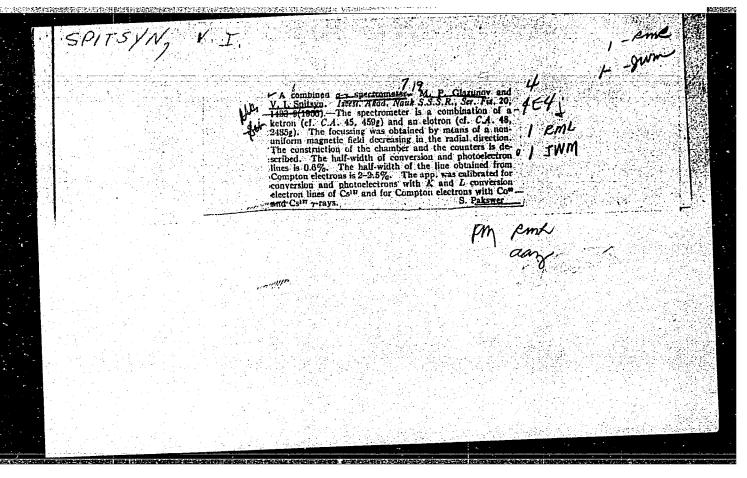
1. Kafedra neorganicheskoy khimii Moskovskogo universiteta. (Naphtaldehyde) (Bases (Chemistry)) (Amines)

TOPCHIYEVA, K.V.: FESHKOVA, V.M.; SHAKHOVA, Z.F.; ALIMARIN, I.P.; NOVOSELOVA,
A.V.; SPITSIN, V.I.; LUTSENKO, I.F.; GERASIMOV, Ya.I.; NESMEYANOV,
A.N.; TERENT'YEV, A.P.; POTAPOV, V.M.; GIBALO, I.M.

R.S. Przheval'skii; obituary, Vest. Mosk. un. Ser. mat. mekh., astron.,
(MIRA 10:12)

fiz., khim. 11 no.2:205-207 '56.

(Przheval'skii, Evgenii Stepanovich, 1879-1956)



SPITSYN VIKT. I

USSR/Inorganic Chemistry. Complex Compounds.

Abs Jour : Referat. Zhurnel Khimiya No 5 1957 18824

Author : Vikt. I Spitsyn N.N. Shavrova.

Inst : Study of Hydrous Sodium Tantalates

Orig Pub : Zh. Obshch Khimii 1956. 26, No 5, 1258 - 1262

Abstract: Sodium tantelates were obtained by combining Ta<sub>2</sub>O<sub>5</sub>(I)

Abstract: Sodium tantelates were obtained by combining Ta<sub>2</sub>O<sub>5</sub>(I)

with NaOH (II) in the weight ratio I: II = 1:5.

The fused mass having been washed with water in order to remove the superfluous II was dissolved in water heated to 80°; the obtained solut on was evaporated at 50° until the crystallization started. Under these conditions, 8Na20.6Ta20s.33H20 (III) was separated in the form of hexagonal plates with unequal sides. When 0.1 of the normal solution of II was added to the initial mass at a low temperature, a precipitate of 7Na20.5Ta20s.22H20 (IV) was separated; this precipitate consists of very little needle crystals of a

Card 1/2

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Abs Jour : Referat. Zhurnal Khimiya No 6, 1957, 18824

prismatic shape. IV was obtained also by evaporating the aqueous solution of the initial fused mass at a temperature above 85°, but in prisms of a larger size. d<sup>20</sup>(3.58 and 3.78), refraction indices, pH of 1% solutions (8.58 and 8.48) were determined for III and IV. The interplanar spacing of III and IV is quoted. The authors arrive to the conclusion that it is possible to obtain two different compounds—III and IV—from the aqueous solution of I combined with II, depending on the concentration of the superfluous II and temperature.

Card 2/2

-9-

SPITSYN VIAT. Tomples Compounds.

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